

Inventors: Vinegar et al. Application No.: 09/841,448 Atty. Dkt. No.: 5659-07400

Bat

4730. (Amended) The method of claim 4699, wherein heating the first portion of the selected section to a temperature sufficient to allow synthesis gas generation comprises:

introducing an oxidizing fluid into the formation through a wellbore;

transporting the oxidizing fluid substantially by convection into the first portion of the selected section, wherein the first portion of the selected section is at a temperature sufficient to support an oxidation reaction with the oxidizing fluid; and

reacting the oxidizing fluid within the first portion of the selected section to generate heat and raise the temperature of the first portion.

4731. (Amended) The method of plaim 4699, wherein heating the second portion of the selected section to a temperature sufficient to allow synthesis gas generation comprises:

introducing an oxidizing fluid into the formation through a wellbore;

transporting the oxidizing fluid substantially by convection into the second portion of the selected section, wherein the second portion of the selected section is at a temperature sufficient to support an oxidation reaction with the oxidizing fluid; and

reacting the oxidizing fluid within the second portion of the selected section to generate heat and raise the temperature of the second portion.

B2

4733. (Amended) The method of claim 4699, wherein the one or more heat sources comprises one or more natural distributed combustors.

SUND

4781. (Amended) The method of claim 4764, wherein heating at least the portion of the selected section to a temperature sufficient to allow synthesis gas generation comprises: introducing an oxidizing fluid into the formation through a wellbore;

transporting the oxidizing fluid substantially by convection into the portion of the selected section, wherein the portion of the selected section is at a temperature sufficient to support an oxidation reaction with the oxidizing fluid; and

reacting the oxidizing stuid within the portion of the selected section to generate heat and raise the temperature of the portion.



Inventors: Vinegar et al. Application No.: 09/841,448 Atty. Dkt. No.: 5659-07400

4783. (Amended) The method of claim 4764, wherein the one or more heat sources comprises one or more natural distributed combustors.

SINS?

4817. (Amended) The method of claim 4800, wherein heating at least the portion of the selected section to a temperature sufficient to allow synthesis gas generation comprises:

introducing an oxidizing fluid into the formation through a wellbore;

transporting the oxidizing fluid substantially by convection into the portion of the selected section, wherein the portion of the selected section is at a temperature sufficient to support an oxidation reaction with the oxidizing fluid; and

reacting the oxidizing fluid within the portion of the selected section to generate heat and raise the temperature of the portion.

Super

4819. (Amended) The method of claim 4800, wherein the one or more heat sources comprises one or more natural distributed combustors.

32

4836. (Amended) A method of treating a coal formation in situ, comprising: providing heat from one or more heat sources to at least a portion of the formation;

allowing the heat to transfer from the one or more heat sources to a selected section of the formation such that the heat from the one or more heat sources pyrolyzes at least some of the hydrocarbons within the selected section of the formation;

producing pyrolysis products from the formation;

heating at least a portion of the selected section to a temperature sufficient to generate synthesis gas;

controlling a temperature of at least a portion of the selected section to generate synthesis gas having a H₂ to CO ratio different than a selected H₂ to CO ratio;

providing a synthesis gas generating fluid to at least the portion of the selected section to generate synthesis/gas;

producing synthesis/gas from the formation
providing at least a portion of the produced synthesis gas to a shift process





Inventors: Vinegar et al. Application No.: 09/841,448 Atty. Dkt. No.: 5659-07400

wherein an amount of carbon monoxide is converted to carbon dioxide; and separating at least a portion of the carbon dioxide to obtain a gas having a selected H₂ to CO ratio.

B33

4853. (Amended) The method of claim 4836, wherein heating at least the portion of the selected section to a temperature sufficient to allow synthesis gas generation comprises:

introducing an oxidizing fluid into the formation through a wellbore;

transporting the oxidizing fluid substantially by convection into the portion of the selected section, wherein the portion of the selected section is at a temperature sufficient to support an oxidation reaction with the oxidizing fluid; and

reacting the oxidizing fluid within the portion of the selected section to generate heat and raise the temperature of the portion.

B34

4855. (Amended) The method of claim 4836, wherein the one or more heat sources comprises one or more natural distributed combustors.



Inventors: Vinegar et al. Application No.: 09/841,448 Atty. Dkt. No.: 5659-07400

Applicant believes no fees are due in association with the filing of this document. If any fees are required, please appropriately charge those fees to Conley, Rose & Tayon, P.C. Deposit Account Number 50-1505/5659-07400/EBM.

Respectfully submitted,

Navie / Chumbrer

David W. Quimby Reg. No. 39,338

A ... C A 1'

Attorney for Applicant

CONLEY, ROSE & TAYON, P.C. P.O. BOX 398 AUSTIN, TX 78767-0398 (512) 476-1400 (voice) (512) 703-1250 (facsimile)

Date: Feb 26, 2002

